

IN THE ABSTRACT:

Please amend the Abstract as follows.

The present invention ~~discloses~~ is directed to a method for locating a mobile station, comprising the steps of using fixed transmitting stations (~~BS1, BS2, BS3~~) for locating a target mobile station (~~MS1~~) by transmitting a measurement signal from each fixed transmitting station to ~~said the~~ the mobile station, using a relay station (~~MSN1—MSN5~~) which is adapted to receive ~~said the~~ the measurement signal from the corresponding fixed transmitting station and to forward ~~said the~~ the signal to ~~said the~~ the target mobile station (~~MS1~~), in case a direct transmission from one or more of ~~said the~~ the fixed transmitting stations (~~BS1, BS2, BS3~~) is not available, and determining the distance between ~~said the~~ the target mobile station (~~MS1~~) to the fixed transmitting stations and/or the relay stations on the basis of ~~said the~~ the measurement signal, and locating the position of ~~said the~~ the target mobile station on the basis of the determined distances. By ~~the~~ this method, it is possible to locate a mobile station even if there is no a direct connection via air to neighbouring base stations.

(Fig. 2)